

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Currently Amended): An antifoam and/or ~~deaerater~~ deaerator ~~based on~~ comprising an oil-in-water dispersion which contains, in the dispersed hydrophobic phase, at least one compound effective as an antifoam and/or ~~deaerater~~ deaerator and, if required, further components, wherein the hydrophobic phase contains 3-thiaalkan-1-ols, 3-thiaoxoalkan-1-ols, 3-thiadioxoalkan-1-ols, esters of said compounds or mixtures thereof as compounds having an antifoam and/or deaerating effect.

Claim 2 (Currently Amended): An antifoam and/or ~~deaerater~~ deaerator as claimed in claim 1, wherein the hydrophobic phase contains

- (a) 3-thiaalkan-1-ols, 3-thiaoxoalkan-1-ols,
3-thiadioxoalkan-1-ols, esters of said compounds or mixtures thereof and
- (b) at least one compound from the group consisting of the glyceryl esters of fatty acids having at least 10 carbon atoms in the molecule, C₁₂- to C₃₀-alcohols, alkoxyated alcohols, esters of sugar alcohols having at least 4 OH groups or at least 2 OH groups and at least one intramolecular ether bond and of a fatty acid having at least 20 carbon atoms in the molecule, fatty esters of C₁₂- to C₂₂-carboxylic acids with monohydric to trihydric alcohols, ketones having melting points above 45°C, the polyglyceryl esters which are obtainable by at least 20% esterification of polyglyceryl esters which have at least 2 glycerol units with at least one C₁₂- to C₃₆ fatty acid, reaction products of mono- and diglycerides with dicarboxylic acids, reaction products of glycerol with dicarboxylic acids, which reaction products are esterified with at least one C₁₂- to C₃₆-fatty acid, polyethylene waxes, natural waxes,

hydrocarbons having boiling points above 200°C, finely divided inert solids and mixtures of said compounds.

Claim 3 (Currently Amended): An antifoam and/or ~~deaerator~~ deaerator as claimed in claim 1, wherein the hydrophobic phase contains

(a) 3-thiaalkan-1-ols, 3-thiaoxoalkan-1-ols, 3-thiadioxoalkan-1-ols, carboxylic esters of said compounds or mixtures thereof,

(b1) polyglyceryl esters which are obtainable by at least 20% esterification of polyglycerols which have at least 2 glycerol units with at least one C₁₂- to C₃₆- fatty acid and

(b2) glyceryl esters of fatty acids having at least 10 carbon atoms in the molecule, C₁₂- to C₃₀-alcohols, alkoxylated alcohols, esters of sugar alcohols having at least 4 OH groups or at least 2 OH groups and at least one intramolecular ether bond and of a fatty acid having at least 20 carbon atoms in the molecule, fatty esters of C₁₂- to C₂₂-carboxylic acids with monohydric to trihydric alcohols, ketones having melting points above 45°C, reaction products of mono- and diglycerides with dicarboxylic acids, reaction products of glycerol with dicarboxylic acids, which reaction products are esterified with at least one C₁₂- to C₃₆- fatty acid, polyethylene waxes, natural waxes, hydrocarbons having boiling points above 200°C, finely divided inert solids and mixtures of said compounds.

Claim 4 (Currently Amended): An antifoam and/or ~~deaerator~~ deaerator as claimed in claim 1, which contains nonionic, anionic, amphoteric and/or cationic emulsifiers as stabilizer.

Claim 5 (Currently Amended): An antifoam and/or ~~deaerator~~ deaerator as claimed in claim 1, which contains from 0.1 to 3% by weight of a water-soluble, amphiphilic copolymer having acid groups and/or of a water-soluble salt thereof as a stabilizer.

Claim 6 (Currently Amended): An antifoam and/or ~~deaerator~~ deaerator as claimed in claim 1, which contains, as a stabilizer B, from 0.1 to 3% by weight, based on the oil-in-water dispersions, of at least one

- polymer of monoethylenically unsaturated acids having molar masses of from 1500 to 300,000,
- graft copolymer of from 5 to 40 parts by weight of N-vinylformamide per 100 parts by weight of a polyalkylene glycol having a molar mass of from 500 to 10,000,
- zwitterionic polyalkylene polyamine,
- zwitterionic polyethyleneimine,
- zwitterionic polyetherpolyamine or
- zwitterionic crosslinked polyalkylenepolyamine.

Claim 7 (Currently Amended): An antifoam and/or ~~deaerator~~ deaerator as claimed in claim 1, which contains, as a stabilizer (B), homopolymers of acrylic acid, homopolymers of methacrylic acid, copolymers of acrylic acid and methacrylic acid, copolymers of acrylic acid and maleic acid, copolymers of methacrylic acid and maleic acid, polyvinylsulfonic acid, polyacrylamido-2-methylpropane-sulfonic acid or their alkali metal and ammonium salts having molar masses of from 1500 to 300,000.

Claim 8 (Currently Amended): An antifoam and/or ~~deaerator~~ deaerator as claimed in claim 1, wherein the hydrophobic phase contains from 1 to 100% by weight of a 3-thiaalkan-

1-ol, of a 3- thiaoxoalkan-1-ol, of a 3-thiadioxoalkan-1-ol, of esters of said compounds with C₁- to C₃₀-carboxylic acids or of mixtures thereof.

Claim 9 (Currently Amended): An antifoam and/or ~~deaerater~~ deaerator as claimed in claim 1, wherein the hydrophobic phase contains from 5 to 75% by weight of a 3-thia-C₁₆ to C₃₀-alkan-1-ol, of a 3- thiaoxo-C₁₆ to C₃₀-alkan-1-ol, of a 3-thiadioxo-C₁₆- to C₃₀-alkan-1-ol, of esters of said compounds with C₁- to C₃₀-carboxylic acids or of mixtures thereof.

Claim 10 (Currently Amended): An antifoam and/or ~~deaerater~~ deaerator as claimed in claim 1, wherein the hydrophobic phase contains from 5 to 70% by weight of a 3-thia-C₁₈- to C₂₈-alkan-1-ol.

Claims 11-16 (Cancelled).

Claim 17 (New): An oil-in-water dispersion which contains, in the dispersed hydrophobic phase, at least one compound selected from the group consisting of a 3-thiaalkan-1-ol, a 3-thiaoxoalkan-1-ol, a 3-thiadioxoalkan-1-ol, and esters of said compounds.

Claim 18 (New): A method of controlling foam in an aqueous medium having a tendency to foam formation, comprising adding the oil-in-water dispersion as claimed in claim 17 to the aqueous medium in antifoam and/or deaerating amounts.

Claim 19 (New): The method as claimed in claim 18, wherein the aqueous medium is a papermaking medium.

Claim 20 (New): The method as claimed in claim 19, wherein the aqueous medium is at a temperature above 40°C.

Claim 21 (New): An aqueous medium having a tendency to foam formation, comprising the oil-in-water dispersion as claimed in claim 17 contained therein in antifoam and/or deaerating amounts.

DISCUSSION OF THE AMENDMENT

The specification has been amended by inserting appropriate headings therein. The specification has also been amended by correcting Table 2 so that the Example numbers in the first column (8-14) correspond to the respective Examples in the specification. The correspondence is clear based on comparison of the data in the second and third columns with the corresponding description in the text for the Examples.

The claims have been amended by changing the spelling of "aerater" to --aerator--.

Claim 1 has been additionally amended by replacing the term "based on" with --comprising--.

Claims 6 and 7 have additionally each been amended by inserting the word --a-- before "stabilizer B". New Claims 17-21 have been added. Claim 17 is similar to Claim 1, but omits a use preamble, and is supported by the Examples. Claims 18-21 are supported in the specification at page 18, prenumbered line 11 ff.

No new matter has been added by the above amendment. Claims 1-10 and 17-21 are now pending in the application.